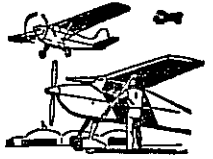


AIRMOTIVE ENTERPRISES, INC.

Box 446

Brainerd, Minnesota 56401



Phone 829-3398

Instruction

Charter Service

Air Ambulance

A & E Maintenance

Weight AND BALANCE

Cessna 182 WREN

N2067X

SER. 18256167

<u>ITEM</u>	<u>Weight</u>	<u>ARM</u>	<u>MOMENT</u>
Empty Weight	1869.0	23.9 ^{25.9} (error)	44137.375 ^{471.097.10}
ALPHA/600	5.25	11.5	60.375
THETA/400	2.00	11.5	23.0
Bendix-M450	7.00	11.5	80.5
Power Supply	7.00	107.0	749.0
	<u>1890.25</u>	<u>23.9</u>	<u>45350.250</u>
		36.0	68.009.975

New Empty Weight 1890.25

Empty Weight C.G. ~~23.9~~ 36.0

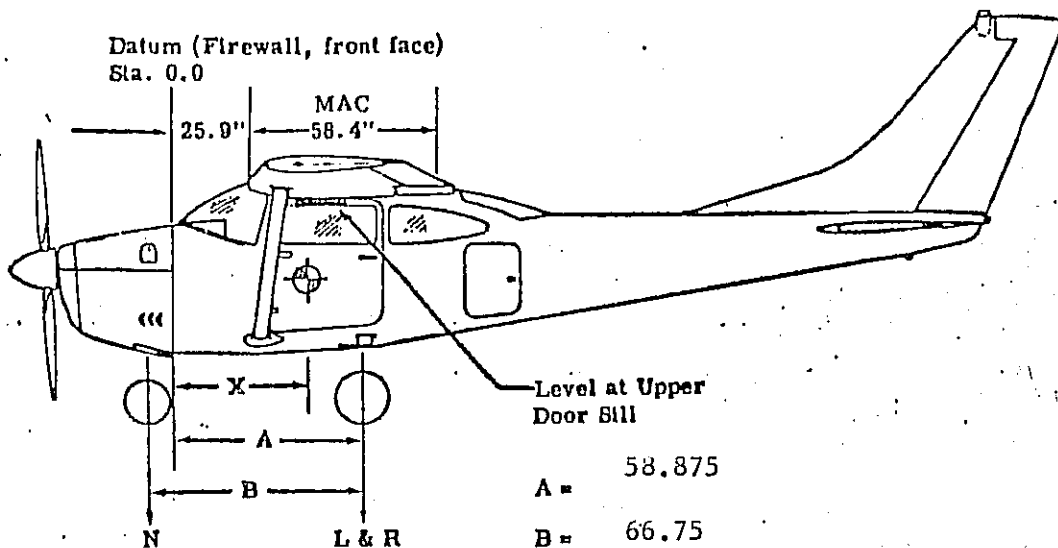
Useful Load 909.75

Ewald S. Ely A#1202814

Oct. 2, 1973

N2067X

May 10, 1967



A = 58.875
B = 66.75

Scale Position	Scale Reading	Tare	Symbol	Net Weight
Left Wheel	617	1	L	616
Right Wheel	624.5	0	R	624.5
Nose Wheel	651	0	N	651 651
Aircraft Empty Weight (As Weighed)			W	1891.5

$$X = \text{ARM} = \frac{(A) - (N) \times (B)}{W}$$

$$X = \text{ARM} = \left(\frac{58.875}{1891.5} \right) - \left(\frac{651}{1891.5} \right) \times (66.75) = \left(\frac{35.9}{22.8} \right) \text{ inches}$$

WEIGHING PROCEDURE

1. Preparation:
 - a. Inflate tires to recommended operating pressures.
 - b. Remove all wing tank drain plugs to remove all fuel.
 - c. Remove oil sump drain plug to drain all oil.
 - d. Move all sliding seats to the most forward position. All seat backs should be in the most nearly vertical position.
 - e. Put flaps in the fully retracted position.
 - f. Place all control surfaces in neutral position.
2. Leveling:
 - a. Place scales under each wheel (1000# minimum capacity for scales).
 - b. Deflate nose tire to center bubble on level (See Diagram).
3. Weighing:
 - a. With the airplane level and brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.
4. Measuring:
 - a. Obtain measurement "A" by measuring horizontally (along the airplane center line) from a line stretched between the main wheel centers to a plumb bob dropped from the firewall.
 - b. Obtain measurement "B" by measuring horizontally and parallel to the airplane center line, from center of nosewheel axle, left side, to a plumb bob dropped from the line between the main wheel centers. Repeat on right side and average the measurements.
5. Completing the Form:
 - a. Using weights from (3) and measurements from (4) the airplane weight and C. G. can be determined.
 - b. Obtain licensed empty weight by adding weight and moment of unusable fuel (see other side) to airplane empty weight and moment.

WREN AIRCRAFT CORPORATION
 Meacham Field P. O. Box 4115
 Fort Worth, Texas

MODEL 460 WEIGHT & BALANCE DATA

Wren Serial No. 25 460182 H Date 10 May 1967
 Cessna Serial No. 18256167 F.A.A. Registration No. N 2067 X

Aircraft Actual Weight Data:

<u>Item</u>	<u>Weight (lbs)</u>	<u>C.G. Arm (inches)</u>	<u>Moment (in-lbs)</u>
(1) Aircraft as Weighed*	1891.5	23.9 22.8	67,965 43395.375
(2) Fuel Aboard (0 gal.)	0	0	0
(3) Oil Aboard (12 qts.)	22.5	-15.0	- 338.0
(4) Unusable Fuel (5.0 gal.)	30.0	46.0	1,380
	1869.0	23.7 35.77	44437.375 66,863

Licensed Empty Wt.

$$= (1) - (2) - (3) + (4)$$

Useful Load 2800 lbs - 1869 = 931 lbs.

*Item (1) above includes items (2) and (3), aircraft paint (all over stripe), Cessna installed optional equipment (Wt. = 71.5 lbs; Arm = 38.1 inches), and installations shown by Form FAA-337 dated (Wt. 1.5 lbs; Arm = 15.0 inches).

Wren Serial No. 25-460182H

Date 10 May, 1967

Cessna Serial No. 18256167

F.A.A. Registration No. N2067X

NOTE

It is the responsibility of the pilot and airplane owner to insure that the airplane is loaded properly. The empty weight C.G. & useful load are for the airplane as delivered from the Wren factory. Refer to forms FAA-337, dated after _____ when alterations have been made.

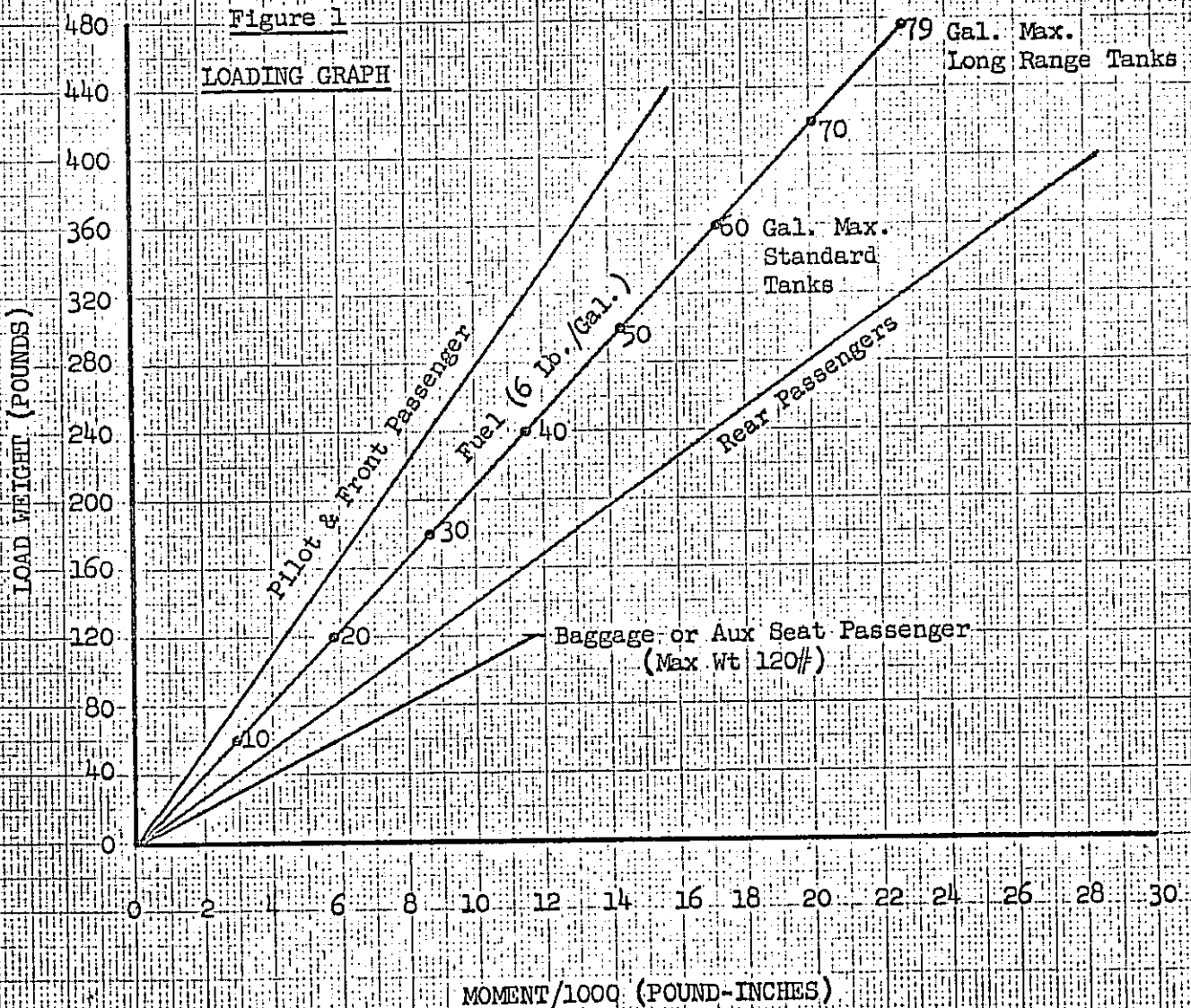
SAMPLE LOADING PROBLEM

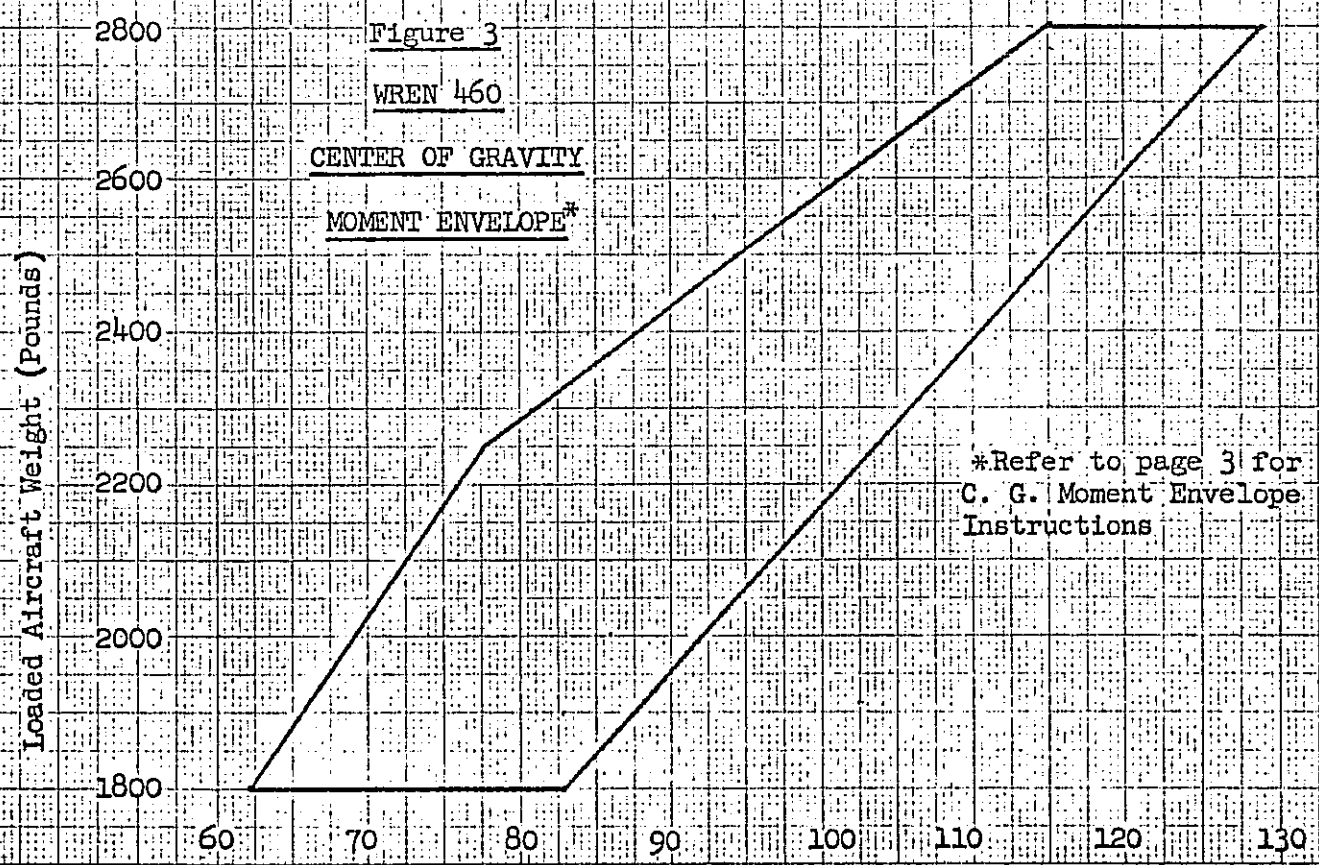
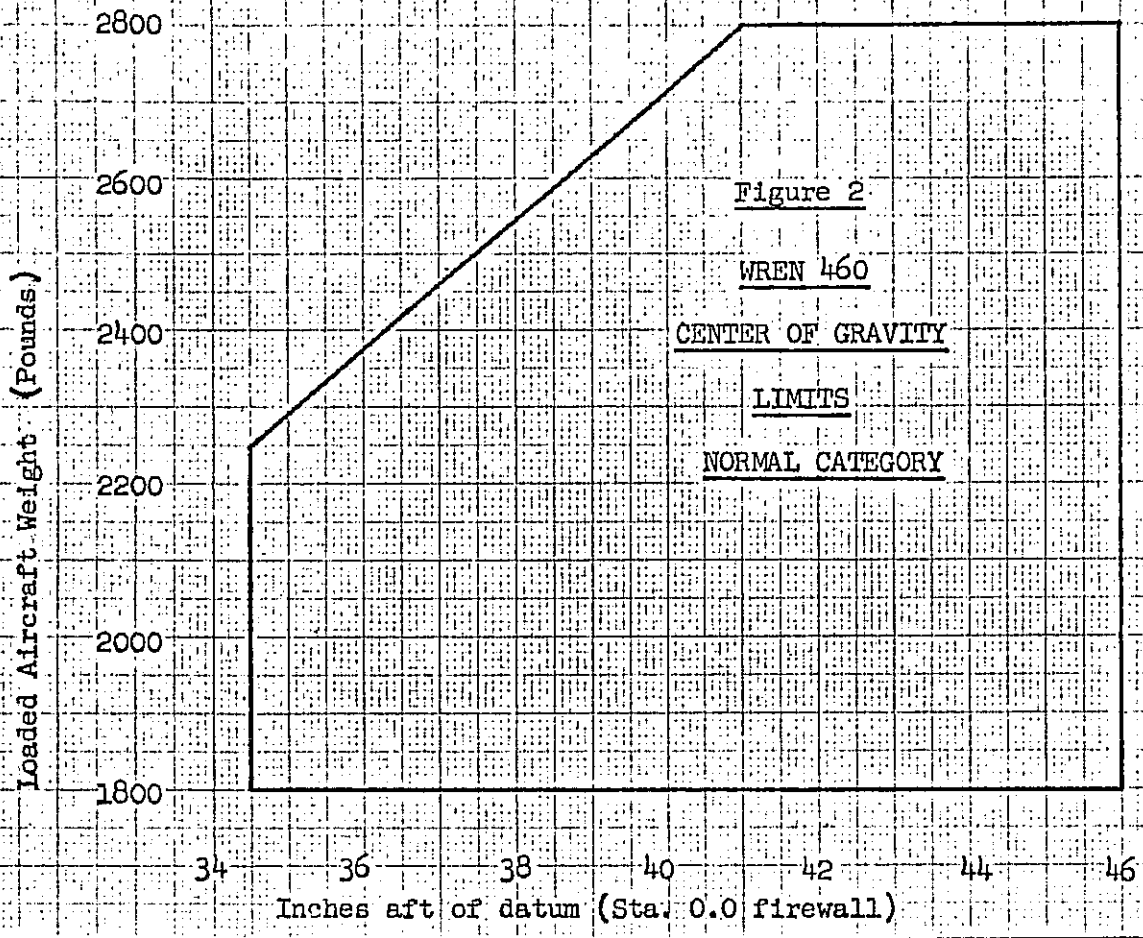
	<u>Weight</u> (lbs)	<u>C.G. Arm</u> (inches)	<u>Moment</u> (in-lbs/1,000)
Licensed Empty Weight	1869	32.9 23.7	44.5
Oil (12 qts.)	22	-15.0	-0.3
Pilot & Front Passenger	340	36.0	12.2
Usable Fuel 27.5 Gal.	179	48.0	8.6
Rear Seat Passenger	340	71.0	24.1
Baggage	50	97.0	4.8
Total Loaded Airplane	2800	33.5	93.9

Locate this point (2800 lbs.; 33.5) on the C.G. Moment Envelope (Fig. 3). Since the point falls within the envelope the loading meets all balance requirements.

C.G. MOMENT ENVELOPE INSTRUCTIONS

- I To the licensed empty weight add weight of all items to be carried
- II To licensed empty weight moment add moment of all items to be carried (Ref. Fig. 1).
- III Locate point determined by I & II and if it falls within the C. G. moment envelope (Fig. 3) the loading is satisfactory.





*Refer to page 3 for
C. G. Moment Envelope
Instructions

WREN MODEL 460H EQUIPMENT LIST

Wren Serial No. 25-460182H

Date 14 April, 1965

Cessna Serial No. 18256167

F.A.A. Registration No. N2067X (Std)

1. Items checked (X) are installed when aircraft leaves Wren factory.
2. Items with suffix (R) are required items of equipment for FAA certification.
3. Items with suffix (S) are standard equipment items.
4. Items with suffix (O) are optional equipment items replacing required or standard items.
5. Items without suffix are optional equipment.
6. Unless otherwise indicated, true values (not net change values) for weight and arm are shown.
7. Negative arms are distances forward of datum (Sta. 0.0 firewall, front face.)
8. Positive arms are distances aft of datum.
9. A separate FAA approval must be obtained if the following items are not installed per applicable Wren drawings & Cessna drawings or accessory kit instructions.

Required, standard, or optional replacements equipment installed and approved by Cessna Factory. Cessna drawing numbers shown when applicable.

<u>ITEM</u>			<u>WT.</u>	<u>ARM</u>
<u>NO.</u>	<u>DESCRIPTION</u>		<u>LBS.</u>	<u>INCHES</u>
01-R	X Engine, Continental	(O-470-R)	430.0	-17.5
02-R	X Propeller (HARTZELL)	(BHC-A2VF3)	70.3	-40.2
03-R	X Spinner, Propeller		4.5	-40.2
04-R	X Governor, Propeller (Woodward)	(8750181-6)	4.0	-32.5
05-R	X Alternator, 52 Amp. 14-Volt (Cessna)	(0750217)	11.5	- 5.5
06-R	X Regulator, Alternator, 52 Amp. 14-Volt (Cessna)	(0750216)	1.0	- 1.0
07-R	X Battery, 12-Volt, 33 Amp. Hr.	(0712605-1)	28.0	116.0
08-R	X Filter, Carburetor Air	(0750038-1)	1.0	-33.0
09-R	X Heating System, Cabin and Carburetor Air		18.0	-16.0
10-R	X Oil Cooler, Engine (Continental)	(625093)	5.5	-31.5
10-O	O Oil Cooler, Engine Non-congealing (Continental)	(630050)	7.0	-31.5
11-R	O Wheel, Tire and Tube and Brake Assembly (Two) 6:00 x 6, 6-ply (Main)		33.5	59.0
11-O	X Wheel, Tire and Tube and Brake Assembly (Two) 8:00 x 6, 6-ply (Main)		43.0	59.0
12-R	O Wheel and Tire Assembly (One) 5:00 x 5, 6-ply (Nose)		8.0	- 7.5
12-O	X Wheel and Tire Assembly (One) 6:00 x 6, 4-ply (Nose)		11.5	- 8.0
14-R	Altimeter	(S-1314N1)	1.0	16.0
14-O	X Altimeter (Sensitive)	(S-1313N1)	1.5	15.5
14-O-1	O Altimeter, Sensitive (Feet & Millibars)	(S-1432N1)	1.5	15.0
15-R	O Seat Adjustable, Pilot		14.0	40.0
15-O	X Seat Adjustable, Vertically, Fore and Aft and with Reclining Back, Pilot		18.0	40.0

Wren Model 460H Equipment List (Cont'd)

Wren Serial No. 25-460182H

Date 14 April, 1965

Cessna Serial No. 18256167

F.A.A. Registration No. N2067X (Std)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>WT. LBS.</u>	<u>ARM INCHES</u>
15-0-1	○ Seat, Power Adjustable, Pilot	24.0	40.0
16-S	○ Seat Adjustable, Co-pilot	14.0	40.0
16-0	X Seat Adjustable, Vertically, Fore and Aft and with Reclining Back, Co-pilot	18.0	40.0
16-0-1	○ Seat, Power Adjustable, Co-pilot	24.0	40.0
17-S	X Seat, Rear	25.5	80.5
18-R	X Belt, Safety, Pilot (S-1060-15)	1.0	36.0
19-S	X Belt, Safety, Co-pilot (S-1060-15)	1.0	36.0
20-S	X Belt, Safety, Rear Seat (Two) (S-1060-14)	2.0	71.0
21-S	○ Paint Scheme, Standard Stripes (0700726)	3.0	110.0
21-0	X Paint Scheme, All-over (0700727) Or (0700726)	19.0	93.5
22-R	X Gage, Cylinder Head Temperature (1213505)	1.0	11.5
23-R	X Gage, Manifold Pressure (S-1301-N1)	1.0	15.0
24-R	X Tachometer, Recording (S-1305-N8)	1.5	14.0
26-S	X Lights, Landing (0523118)	2.5	31.0

Required, standard, or optional replacement equipment installed by Wren Factory in accordance with STC SA485SW, dated 1 March, 1965. Wren drawing numbers shown.

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>WT. LBS.</u>	<u>ARM INCHES</u>
13-R	X Indicator, Stall Warning Audible (300-200)	1.0	17.5
25-R	X Indicator, Airspeed (800-101)	1.0	15.5

Optional equipment installed and approved by Cessna Factory. Cessna drawing numbers shown when applicable.

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>WT. LBS.</u>	<u>ARM INCHES</u>
100	X Axles, Heavy Duty (Net Change) (1441003)	1.5	59.0
101	X Cables, Stainless Steel Control (Net Change)	Negl.	----
102	X Clock, Electric (S-1317-N1)	0.5	16.5
103	X Controls, Dual (0760650)	7.5	13.5
104	X Corrosion Proofing, Internal	5.0	70.0
105	○ Curtains, Rear Window (0700707)	1.5	112.0
106	○ Discharger, Static (0770726)	Negl.	----
107	○ Fairing, Standard Nose Wheel	4.0	- 6.0
108	○ Fairing, Oversize Nose Wheel	4.5	- 6.0
109	○ Fairings, Standard Main Wheel (Set of Two)	13.5	61.5

Wren Model 460H Equipment List (Cont'd)

Wren Serial No. 25-460182H

Date 14 April, 1965

Cessna Serial No. 18256167

F.A.A. Registration No. N2067X (Std)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>WT. LBS.</u>	<u>ARM INCHES</u>
110	○ Fairings, Oversize Main Wheel (Set of Two)	15.0	63.0
111	○ Filter, Full Flow Oil (0750606)	4.5	- 4.5
112	○ Fire Extinguisher, Hand Type (use with Std. Pilot's Seat) (1400054)	5.5	35.0
113	○ Fire Extinguisher, Hand Type (use with Manual Vertical Adjusting Pilot's Seat)	5.5	29.0
114	○ Fire Extinguisher, Hand Type (use with Electric Vertical Adjusting Pilot's Seat)	5.5	67.0
115	○ Gage, Carburetor Air Temperature (S-1311-N1)	1.0	5.5
116	X Gage, Outside Air Temperature (S-1322-1)	Negl.	28.5
117	○ Ground Service Plug Receptacle (AN2552-3A)	2.0	- 3.0
118	○ Gyros, Remanufactured Horizontal and Directional (Includes Engine-Driven Vacuum System) (C-661001-0101) (C-661002-0101)	16.0	7.5
119	○ Gyros, Remanufactured Horizontal and New 3" Directional (Includes Engine-Driven Vacuum System)	15.0	7.0
120	○ Gyros, New, Horizontal and Directional (Includes Engine-Driven Vacuum System) (G-519A) (G-520A)	13.0	6.5
121	○ Headrests, Front Seats, Two (Installed)	1.5	47.0
122	○ Headrests, Rear Seats, Two (Installed)	1.5	87.0
123	○ Heating System - Stall Sensor and Pitot	0.5	26.5
124	○ Hook, Glider Tow-Stowed (Installed Arm Shown) (0712643)	0.5	231.0
125	X Indicator, Economy Power (0750609)	1.0	6.0
126	X Indicator, Rate of Climb (S-1304-N1)	1.0	15.5
127	X Indicator, Turn and Bank (S-1302-N1)	2.0	15.0
128	○ Light, Map (0770725)	0.5	30.0
129	X Light, Rotating Beacon (1270427)	1.5	253.0
130	○ Lights, Courtesy (Set of Two) (0700615)	Negl.	61.0
131	○ Mirror, Rear View (0700156)	0.5	16.0
132	X Nose Gear Fork - Net Change (use with Item 12-0).	2.0	- 5.5
133	○ Oil Dilution System (0750155)	2.0	- 0.5
134	○ Oxygen System, 4-Port (0700728)		
135	○ Oxygen System, 6-Port (0700728)		
136	○ Priming System, Six-cylinder (0750125)	1.0	-15.0
137	○ Seat Installation - Auxiliary (Includes Seat Belt) (0711663)	10.0	102.0
138	○ Shelf, Utility - Removable (0711682)	1.0	105.5
139	○ Stabilizer Abrasion Boots (0500041)	1.5	206.0
140	○ Stretcher Installation, Custom Air (use Actual Installed Weight and Arm Change) (0700073)		

Wren Model 460H Equipment List (Cont'd)

Wren Serial No. 25-460182H

Date 14 April, 1965

Cessna Serial No. 18256167

F.A.A. Registration No. N2067X (Std)

<u>ITEM</u> <u>NO.</u>	<u>DESCRIPTION</u>	<u>WT.</u> <u>LBS.</u>	<u>ARM</u> <u>INCHES</u>
141	X Sun Visors (Two) (0700122)	1.0	33.0
142	○ Tow Bar, Aircraft (Stowed) (0700315)	2.0	97.0
143	X Ventilation System, Rear Seat (1200636)	1.0	60.5
144	○ Windshield, Tinted (Net Change)	Negl.	----
146	○ Winterization Kit, Engine Stowed (0700734) (Installed Arm Shown)		
204	X Electronic Installation - Partial - Option A	5.5	67.0
205	○ Electronic Installation - Partial - Option B	1.0	53.5
206	○ Electronic Installation - Partial - Option C	2.5	16.5
207	○ Electronic Installation - Partial - Option D	0.5	67.0
208	○ Antenna and Cable - Communication (VHF)	1.0	53.5
209	○ Antenna and Cable - Dual - Communication (VHF)	1.5	53.5
210	○ Antenna and Cable - Navigation (VHF)	1.5	172.0
211	○ Antenna and Cable - Marker Beacon	0.5	57.5
212	○ Headset and Microphone	1.0	18.0
213	○ Cabin Speaker	1.5	40.0
214	○ Radio Selector Switches	0.5	18.0
215	○ Audio Amplifier	1.0	11.5
216	○ Radio Cooling System	1.5	10.0
217	○ Radio Cooling System (Multiple TSO Instls.)	0.5	10.0
218	○ Cessna ADF 300 (521B) (0770750) (Includes Loop and Antenna)	11.0	20.0
219	○ Cessna Transceiver 300 (524A)	8.0	11.5
220	○ Cessna Nav-Com 300 (514A)	11.0	11.5
221	○ Cessna Nav-Com 300 (514R)	11.5	11.5
222	○ Cessna H.F. Transceiver 300 (526) (Includes Antenna)		
223	○ Cessna Marker Beacon Receiver 300 (502B) (Includes Antenna)	2.5	20.0
224	○ Cessna Transceiver 500 (302G) TSO	11.5	53.5
225	○ Cessna Nav-Com 500 (317G) TSO	21.0	63.5
226	○ Cessna ADF 500 (318G) TSO (Includes Loop and Antenna)	22.0	69.5
227	○ Cessna Nav-Omni 500 (319G) TSO (Includes Glide Slope Antenna)	20.5	60.5
228	○ King KY-95 or KY-95E	9.0	59.5
229	○ King KX-120 with KI-200	14.0	44.0
230	○ King KX-150A or KX-150AE	9.0	11.5
231	○ NARCO Mark XII with VOA-4	15.5	48.0
232	○ NARCO Mark XII with VOA-5	15.5	48.0
233	○ NARCO Mark XII with VOA-6	14.5	50.5
234	○ NARCO UGR-1A (Includes Glide Slope Antenna)	9.0	90.0
235	○ NARCO UDI-2 DME	18.0	59.0
236	○ Pantronics H.F. Transceiver DX-10D (Includes Fixed Wire Antenna)	19.5	55.5
237	○ Pantronics H.F. Transceiver DX-10D (Includes Reel-out and Fixed Wire Antennas)	30.0	78.5

Wren Model 460H Equipment List (Cont'd)

Wren Serial No. 25-460182H

Date 14 April, 1965

Cessna Serial No. #8256167

F.A.A. Registration No. N2067X (Std)

Optional equipment installed by Wren Factory in accordance with STC SA485SW, dated 1 March, 1965.

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>WT. LBS.</u>	<u>ARM INCHES</u>
145 X	Wings, Extended Range (Net Change)	7.0	46.5

Optional equipment installed and approved by Form F.A.A. 337, dated 4-14-65

Installation made by:

<u>DESCRIPTION</u>	<u>WT. LBS.</u>	<u>ARM INCHES</u>
Narco VDI - 4	9.12	11.5
Canairco Beacon	1.7	161.25
Mitchell Attitude Gyro 52D66	2.7	13.0
Mitchell Directional Gyro 52D 54	3.2	14.0
Mitchell Roll Servo ID 363 - 243R	2.5	53.0
Mitthell Console Amplifier IC 385	2.6	15.0
Mitchell Radio Coupler Ic 388	1.0	15.0
Rupert Shoulder Harness Model 82	1.5	36.0

FEDERAL AVIATION AGENCY
MAJOR REPAIR AND ALTERATION
 (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
 Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Wren/Cessna	MODEL 460/182H
	SERIAL NO. 25-460182H	NATIONALITY AND REGISTRATION MARK N 2067X
2. OWNER	NAME (As shown on registration certificate) Dr. Lester L. Bissinger	ADDRESS (As shown on registration certificate) 621 No. 9th St. Brainiard, Minn.

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION

5. TYPE

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****			X	
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
Gary Wilson #302 N. Hocker Indep. Mo. 64050	<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC	A&P 1686515
	<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC	
	<input type="checkbox"/> CERTIFICATED REPAIR STATION	
	<input type="checkbox"/> MANUFACTURER	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE Mar 1, 1971	SIGNATURE OF AUTHORIZED INDIVIDUAL
---------------------	------------------------------------

7. APPROVAL FOR RETURN TO SERVICE

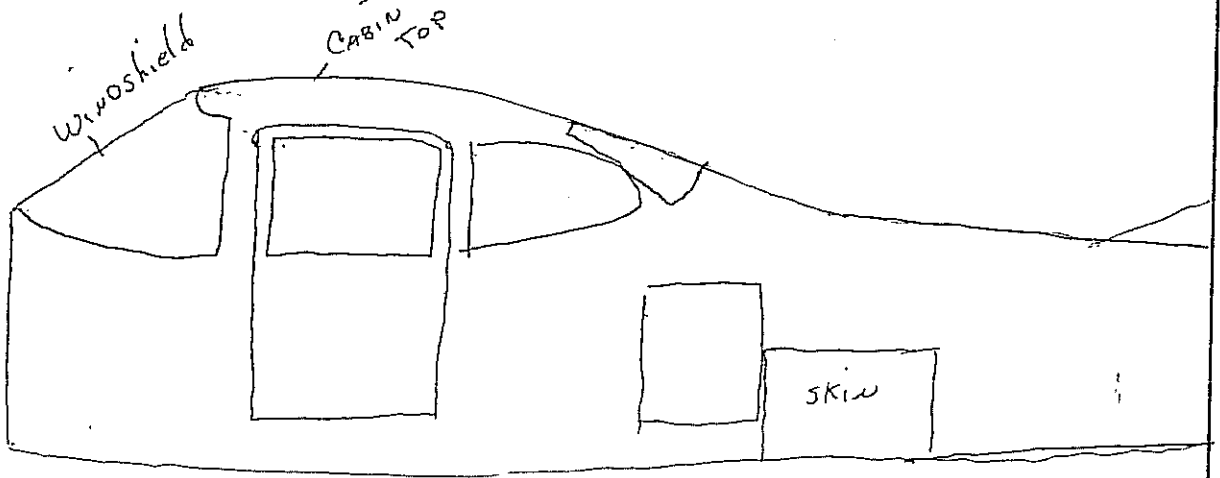
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION Mar 1, 1971	CERTIFICATE OR DESIGNATION NO. #1031127	SIGNATURE OF AUTHORIZED INDIVIDUAL William K. Anderson		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)



Windshield, Cabin Top, bottom left center fuselage skin replaced with Cessna factory parts. Aircraft assembled and test flown.

FEDERAL AVIATION AGENCY
MAJOR REPAIR AND ALTERATION
 (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
 Budget Bureau No. 04-R060.1

FOR FAA USE ONLY
 OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Cessna	MODEL 182H
	SERIAL NO. 18256167	NATIONALITY AND REGISTRATION MARK N 2067X
2. OWNER	NAME (As shown on registration certificate) Dr. Lester L. Bissinger	ADDRESS (As shown on registration certificate) 621 No. 9th St. Brainerd, Minn.

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME (As described in item 1 above)			X	
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE-NO.
Billy Joe Young 3140 Milam St. Fort Worth, Texas 76112	<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC	A & P 1804475
	<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC	
	<input type="checkbox"/> CERTIFICATED REPAIR STATION	
	<input type="checkbox"/> MANUFACTURER	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE 11-5-68	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Billy Joe Young</i> Billy Joe Young
-----------------	--

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER <input checked="" type="checkbox"/>	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT, INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 11-5-68	CERTIFICATE OR DESIGNATION NO. A & P 477457	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Clifford A. Salaun</i> Clifford A. Salaun		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

B. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Wren Rt. Wing Removed from Cessna 460H (N2012x Ser. # 18256112),
Modification S.T.C. No. S.A. 485 S.W. dated 1-5,65
Wing Repaired at Wren Aircraft Corporation, Meacham Field
Wing Not Installed At this Time, To be installed by owner latter
on Aircraft N2067X Ser. # 18256167

Rear Spar at Sta 90 Repaired with 2024T .050 Thickness, with
doubler on each side

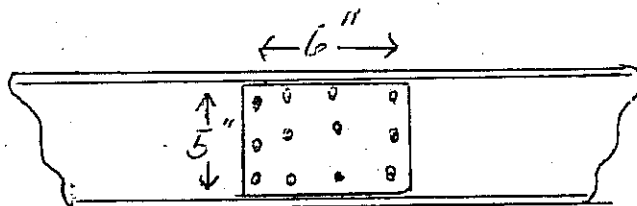
Replaced Wren doubler at Sta 100

Replaced Wren Leading Edge Skin from Sta. 100 to Sta 209

Wren Part Numbers

Doubler # 300-205-18

Leading Edge # 300-209-1



ADDITIONAL SHEETS ARE ATTACHED

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Cessna	MODEL 182H
	SERIAL NO. 18256167	NATIONALITY AND REGISTRATION MARK N2067X
2. OWNER	NAME (As shown on registration certificate) Dr. Lester L. Bissinger	ADDRESS (As shown on registration certificate) 621 N. 9th St. Brainerd, Minn.

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****			X	X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
Billy Joe Young 3140 Milam St. Fort Worth, Texas 76112	<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC	A & P 1804475
	<input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC	
	<input type="checkbox"/> CERTIFICATED REPAIR STATION	
	<input type="checkbox"/> MANUFACTURER	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE 5 November 1968	SIGNATURE OF AUTHORIZED INDIVIDUAL Billy Joe Young <i>Billy Joe Young</i>
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7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/>	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION 5 November 1968	CERTIFICATE OR DESIGNATION NO. A & P 477457	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Clifford A. Salaun</i> Clifford A. Salaun
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Modification new Cessna wing 1/H #0720601-210 aircraft. Wing has been modified in accordance with Wren Aircraft Corp. drawing List MR-460H-1 dated 15 Jan. 1965 and approved under STC No. SA485SW. Wren wing and ULS assembly not installed at this time. To be installed by owner on aircraft N2067X later.

WREN ULS Assembly (Ultra Low Speed System)

WREN Part Numbers

RH Stabilizer

101-301-1

RH Elevator

101-302-2

101-100-1

101-100-1

ADDITIONAL SHEETS ARE ATTACHED

FEDERAL AVIATION AGENCY
MAJOR REPAIR AND ALTERATION
 (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
 Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Cessna	MODEL 182H Wren 260
	SERIAL NO. 18256167	NATIONALITY AND REGISTRATION MARK N-2067X
2. OWNER	NAME (As shown on registration certificate) Dr. Bissinger, Lester L.	ADDRESS (As shown on registration certificate) 621 No. 9th St. Brainard, Minn.

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS Airframe Rebuilders, Inc. Downtown Airport St. Paul, Minnesota	B. KIND OF AGENCY <input type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	C. CERTIFICATE NO. 3460
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE March 19, 1968	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Arthur Bissinger</i>
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7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 3/19/68	CERTIFICATE OR DESIGNATION NO. 3460	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Don Henderson</i>		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N-2067X

March 19, 1968

The following items were replaced with factory replacement.

Complete firewall, lower forward belly skin.

The right and left forward vertical angles on the console were replaced. The console was straightened and reinforced with .032 2024T-3 alclad aluminum.

No weight and balance change.

ADDITIONAL SHEETS ARE ATTACHED

FEDERAL AVIATION AGENCY
MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
 Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Wren / Cessna	MODEL 460 / 182H
	SERIAL NO. Wren 25-460182H Cessna 18256167	NATIONALITY AND REGISTRATION MARK N 2067 X
2. OWNER	NAME (As shown on registration certificate) North Star Airpark, Inc.	ADDRESS (As shown on registration certificate) 304 Henry Street Brooklyn 1, N. Y.

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION

5. TYPE

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME (As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS William P. Layne Mitchell Industries, Inc. Box 610 Mineral Wells, Texas	B. KIND OF AGENCY <input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	C. CERTIFICATE NO. 1221312
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE 4-14-67	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>William P. Layne</i>
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7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED REJECTED

BY	<input checked="" type="checkbox"/> FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)
	<input type="checkbox"/> FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	

DATE OF APPROVAL OR REJECTION 4-28-67	CERTIFICATE OR DESIGNATION NO. PTW - 2-0-4	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Oliver A. Pettit, Jr.</i>
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed Mitchell AK243 Century II Autopilot & Radio Coupler in accordance with S. T. C. SA 791 SW.

ADDITIONAL SHEETS ARE ATTACHED

FEDERAL AVIATION AGENCY
MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
 Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE WREN/Cessna	MODEL 460/182H
	SERIAL NO. WREN 25-460182H Cessna 18256167	NATIONALITY AND REGISTRATION MARK N2067X
2. OWNER	NAME (As shown on registration certificate) North Star Airparks, Inc.	ADDRESS (As shown on registration certificate) 304 Henry Street Brooklyn, New York 11201

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				XX
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS	B. KIND OF AGENCY	C. CERTIFICATE NO.
Lester W. Fleetwood 2717 Avenue E Fort Worth, Texas	<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	A & P 640749IA

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE 11 May 1967	SIGNATURE OF AUTHORIZED INDIVIDUAL Lester W. Fleetwood
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7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 11 May 1967	CERTIFICATE OR DESIGNATION NO. A&P 640749 IA	SIGNATURE OF AUTHORIZED INDIVIDUAL Lester W. Fleetwood		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Installed Wren Hartzell Beta Control System under STC-692-SW and Wren drawing No. 200-100.
2. Installed Canairco strobe beacon in accordance with manufacturing instructions FAR 43 and FAA advisory circular AC 20-30.
3. Aircraft weighed in closed hangar. See A/C weight and balance data and current equipment list for new CG.

ADDITIONAL SHEETS ARE ATTACHED